

# Hydrologic Technical Work Group

November 8, 2007

# Hydrologic Technical Work Group

## **Agenda**

### **Salton Sea Hydrologic Monitoring and Assessment**

**9:00 a.m. – 3:30 p.m., November 8, 2007**

**U.C. Riverside – Palm Desert, Room B114**

**75-080 Frank Sinatra Drive**

**Palm Desert, CA 92211**

- I. Introductions
- II. Purpose of meeting
- III. Review of Preferred Alternative
- IV. Monitoring and Assessment Plan Goals and Objectives
- V. Historical and current monitoring in the Salton Sea Basin
- VI. Monitoring considerations
- VII. Next Steps

# Hydrologic Technical Work Group

## Introductions

- Who you are
- Agency/organization you represent

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## Purpose of meeting

- Develop monitoring and assessment plan goals and objectives for long-term hydrologic monitoring for the Salton Sea ecosystem
- Identify existing information
- Identify long-term hydrologic data needs
- Develop long-term hydrologic monitoring program

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## Review of Preferred Alternative

- QSA and Implementing Legislation
  - Senate Bill 277 (Ducheny)
  - Senate Bill 317 (Kuehl)
  - Senate Bill 654 (Machado)
  - Senate Bill 1214 (Kuehl)

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## Review of Preferred Alternative

### Marine Sea

- 45,000 acres
- completed by 2022
- <40,000 mg/L by 2024

### Saline Habitat Complex

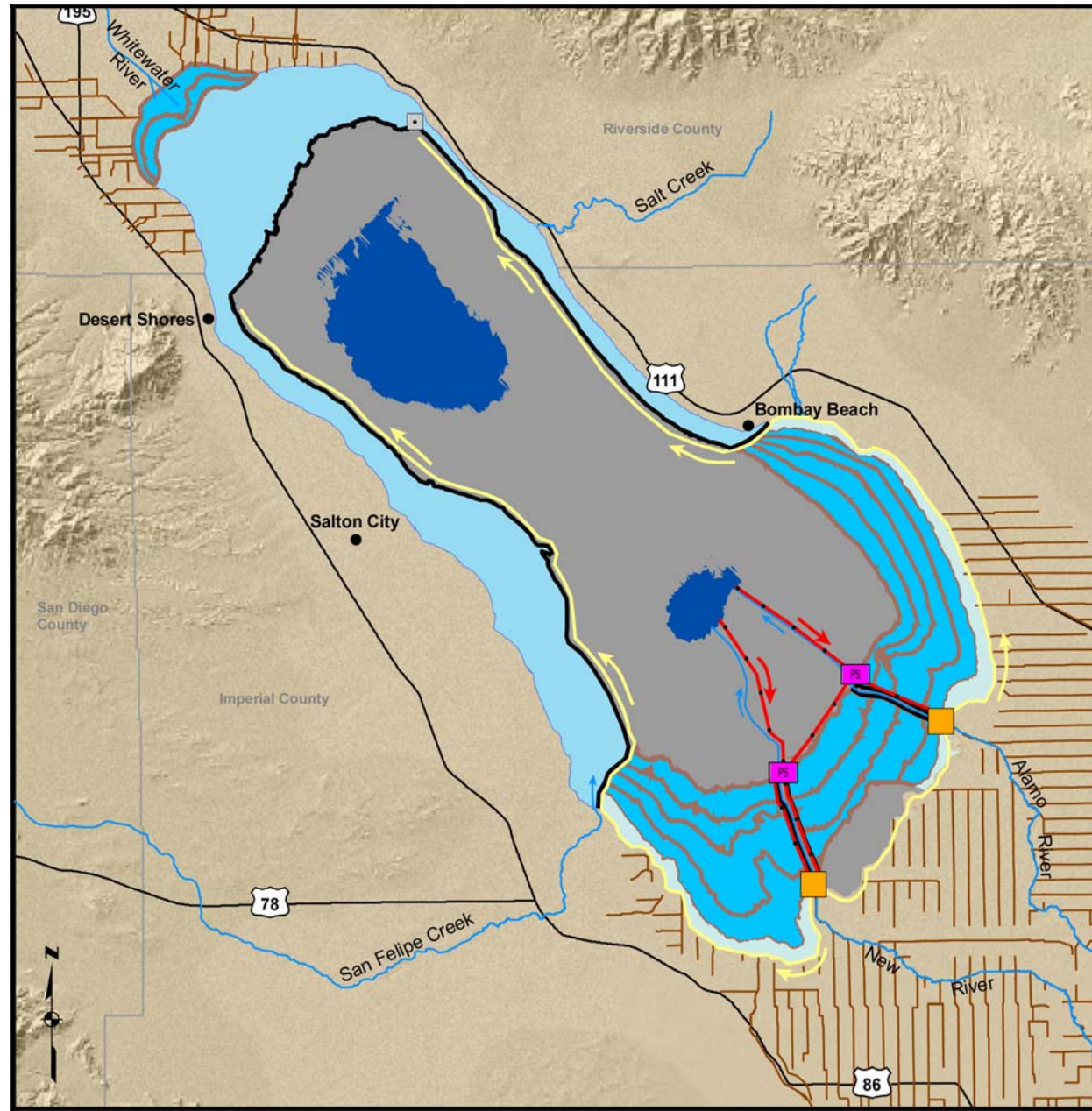
- 62,000 acres

### Brine Sink

- 17,000 acres

### Exposed Playa

- 106,000 acres



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## Review of Preferred Alternative

- Period 1 – Five Year Plan
- Period 2 – Major Construction
- Period 3 – Construction Completion
- Period 4 – O & M

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## Review of Preferred Alternative

- Senate Bill 187 (Ducheny)
  - Governance entity
  - Bond funding from Proposition 84
- Governor's budget for 2007-08



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## Salton Sea Monitoring & Assessment Plan

- Air Quality and Climatological Data
- Biological Data
- Hydrological Data
  - Water quality
  - Stream flow
  - Groundwater
- Geographic/Geology Data
- Socioeconomic Data
- Data Management

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## Monitoring & Assessment Plan Goal

- Implement a data collection, analysis, management, and reporting system to inform and guide management actions for the restoration of the Salton Sea ecosystem.

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## Monitoring & Assessment Plan Objectives

- Conduct a retrospective analysis of data to determine its relevance/applicability for inclusion into the MAP.
- Incorporate relevant existing data into the MAP.
- Measure and assess changes from reference conditions to the Salton Sea ecosystem.
- Provide information to refine hypotheses of ecosystem functions.
- Provide information to assess performance of project implementation and management actions.
- Store, manage, and make publicly available monitoring data in a timely manner.

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## Historic and Current Hydrologic Monitoring in the Salton Sea Basin

- US Bureau of Reclamation
- Colorado River Basin Regional Water Quality Control Board
- State Water Resources Control Board
- US Geological Survey
- Imperial Irrigation District
- Imperial County Farm Bureau
- Coachella Valley Water District
- Torres Martinez Tribe
- CH2M HILL
- UC Riverside
- UC Davis
- San Diego State University
- Redlands Institute
- Others

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## Historic and Current Hydrologic Monitoring in the Salton Sea Basin

### Agency/organization overview of monitoring activities

- Agency/organization
- Components monitored (surface water, stream flow, groundwater)
- General locations for monitoring
- Parameters monitored
- Frequency of data collection
- Disposition and availability of data
- Issues
- Contact info

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## Hydrologic Monitoring Considerations

- Identification of long term monitoring needs
- Size of monitoring network dependent on objectives and availability of resources
- Number and locations of monitoring stations
- Monitoring parameters
- Future use of monitoring data
- Prioritization and justification of monitoring

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## Next Steps

- Development of a Hydrologic Monitoring Plan
  - Identify roles and responsibilities
  - Facilitate and integrate input from local, Tribal, state, and federal agencies and other stakeholders
- Meetings and decision making
- Agreements and contracts to implement monitoring program
  - Identify implementing agency or group



